In the Claims

1. (currently amended) A method for extracting speech recognition features from a speech signal coded as a bitstream, comprising:

decoding the bitstream to recover linear predictive coding filter parameters;

decoding the bitstream to recover a residual signal;

concatenating the linear predictive coding filter parameters and the residual signal into an extended vector; and

reducing a dimensionality of the extended vector to extract speech recognition features from the bitstream ~~discriminatively combining the linear predictive coding filter parameters and the residual signal into speech recognition features~~.

2. (currently amended) The method of claim 1 further comprising:

up-sampling the linear predictive coding filter parameters; and

interpolating the up-sampled linear predictive coding filter parameters.

3. (original) The method of claim 2 wherein a set of samples is obtained for every frame of the bitstream.

4. (currently amended) The method of claim 2 further comprising:

deriving cepstral vectors from the up-sampled ~~LPC~~ linear predictive coding filter parameters.

5. (original) The method of claim 1 further comprising:

setting short-term prediction coefficients to zero; and

decoding the bitstream to obtain the residual signal.

6. (original) The method of claim 1 further comprising:

analyzing an entire spectrum of the residual signal.

7. (currently amended) The method of claim 1 further comprising:

deriving a high-dimensional log spectra from the residual signal for each set of up-sampled ~~LPC~~ linear predictive coding filter parameters.

8. (currently amended) The method of claim 1 further comprising:

deriving a cepstral vector corresponding to each set of linear ~~predicative~~ predictive coding filter parameters of each frame;

deriving a high-dimensional log spectra from the residual signal for each frame;

concatenating the cepstral vector with each corresponding high-dimensional log spectra for each frame to generated ~~an~~ the extended vector.

9. (currently amended) The method of claim 8 further comprising:

reducing ~~a~~ the dimensionality of the extended vector using linear discriminant analysis.

10. (original) The method of claim 8 further comprising:

reducing a dimensionality of the extended vector using discriminant neural network.

11. (original) The method of claim 1 wherein the speech recognition features are extracted from a bitstream in a server executing a speech recognizer.